

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/011686 A1

(51) International Patent Classification⁷: **A61K 31/427**,
A61P 37/00, 29/00, C07D 417/06, 417/14

(21) International Application Number:
PCT/EP2004/051625

(22) International Filing Date: 27 July 2004 (27.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03102313.8 28 July 2003 (28.07.2003) EP

(71) Applicant (for all designated States except US): **Applied Research Systems ARS Holding N.V.** [NL/NL]; Pietermaai 15, Curacao (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RUECKLE, Thomas** [DE/CH]; Chemin du Vieux Puits 9, Plan-les-Ouates, 1228 (CH). **SHAW, Jeffrey** [IT/CH]; 10 Chemin THury, 1206 Geneva (CH). **CHURCH, Denis** [US/CH]; Chemin des Vignes 4, 1291 Commugny (CH). **COVINI, David** [CH/CH]; 29 Chemin du Daru, 1228 Plan-les-Ouates (CH).

(74) Agent: **Serono International SA Intellectual Property Department HASSA, Juergen**; 12, Chemin des Aulx, CH-1228 Plan-les-Ouates (CH).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 2-IMINO-4-(THIO) OXO-5-POLY CYCLOVINYLAZOLINES FOR USE AS P13 KINASE INHIBITORS

(57) Abstract: The present invention is related to 2-imino-azolinone-vinyl fused-benzene derivatives of Formula (1) in particular for the treatment and/or prophylaxis of autoimmune disorders and/or inflammatory diseases, cardiovascular diseases, neurodegenerative diseases, kidney diseases, platelet aggregation, cancer, transplantation, graft rejection or lung injuries.

WO 2005/011686 A1